

N-ARTKQTARKSTGGKAPRKQLATKAARKSAP

H3

+ GRGKGGKGLGKGGAKRHRKVLRDNIQGIT

\* GRGKGGKGLGKGGAKRHRKVLRDNIQGIT

- ACETYLATION
- ▲ METHYLATION
- \* PHOSPHORYLATION

Fig. 1

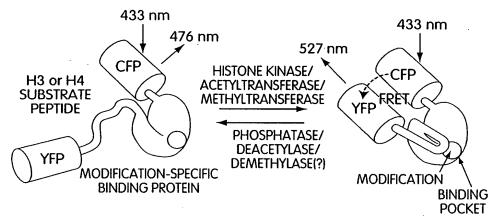


Fig. 2A

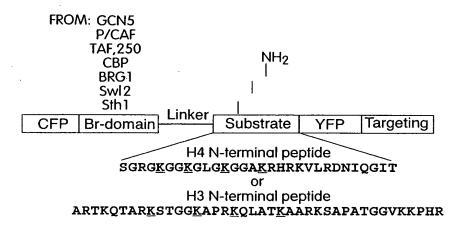


Fig. 2B

|        | CFP        | Gons Bromodom   | Linker<br>ain | H4 Peptide   | YFP          |         |
|--------|------------|-----------------|---------------|--------------|--------------|---------|
|        | CFP-A206   | ≺ Gcn5 Bromodom | Linker        | H4 Peptide   | YFP-A206I    | K       |
|        | CFP        | TAE AVBROMOGO   | Linker        | H4 Peptide   | YFP          |         |
|        | CFP-A206I  | K TAE ABromode  | Linker        | H4 Peptide   | YFP-A206I    | ₹]      |
|        | CFP        | nAE ByBromode   | Linker        | H4 Peptide   | YFP          |         |
|        | CFP-A206   | K TAF B Bromodo | Linker        | H4 Peptide   | YFP-A206     | <       |
| CFI    | P TAF A    | Bromodom IFAF4B | Bromodor      | Linker H4    | Peptide      | YFP     |
| CFP-A2 | 206K TAF-A |                 | Bromodon      | Linker<br>H4 | Peptide   YF | P-A206K |

Fig. 3A

| Linker                                |          |
|---------------------------------------|----------|
| CFP 34 3 37 H3 Peptide YFP            |          |
| CFP-A206K Linker H3 Peptide YFP-A206K |          |
| Linker                                |          |
| CFP 1/2 3 3 7 1/4 3 3 7 H3 Peptide    | YFP      |
|                                       | P-A206K  |
| CFP Linker Linker H3 Peptide H3 337   | YFP      |
| Linker Linker                         | FP-A206K |
|                                       |          |

Fig. 3B



Fig. 4A

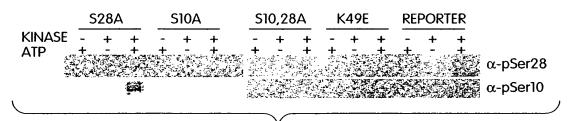
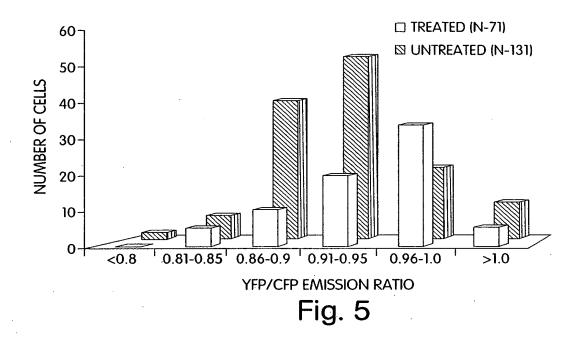


Fig. 4B



GSTSGSGKPGSGEGSTGAGGAGSTSGSGKPSGEG

CFP TAF Bromodomain Linker H4 Peptide YFP

SGRGKGGKGLGKGGAKRHRKVLRDNIQGIT

5 8

Fig. 6

